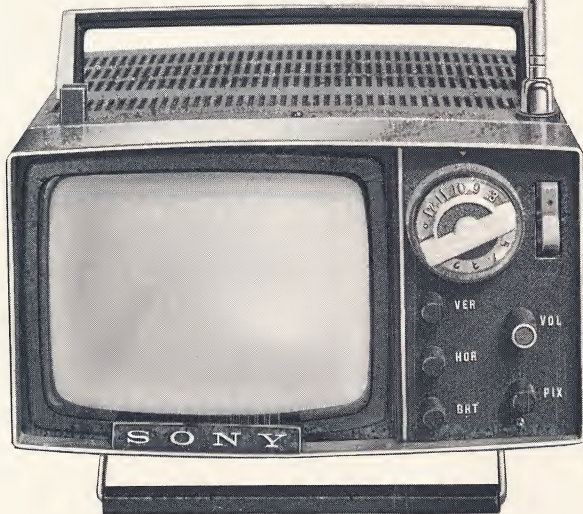




PVJ-303R VIDEO, AUDIO and RF



PVJ-3030 VIDEO and AUDIO ONLY

**UNIQUE
HIGH QUALITY, LOW
COST, VIDEO MONITORS
OPERATE on 110V AC
or 12V DC**

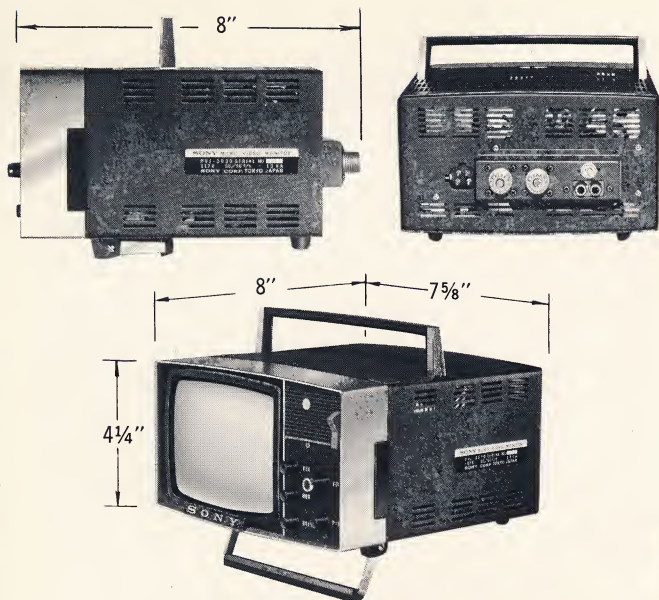
VIDEO RF MONITOR

Completely versatile, the SONY PVJ-303R monitor actually serves three functions: It receives broadcast signals and feeds them to the PV-100 Videocorder for recording; it monitors a Videocorder taped signal for viewing; and it can serve as a standard SONY Micro-TV fully transistorized TV set, operating on its own power pack, auto/boat system or AC. ■ weighs only 8 lbs. and has 25 transistors with easy-to-service snap-out circuit boards ■ 5" specially designed direct-view screen for sharp, bright images ■ has additional feature of a special video amplifier to permit use with closed circuit television systems ■ automatically switches to monitor function when Videocorder is switched to playback ■ complete with removable "jeep" on back of set for simple plug-in connection with Videocorder.

VIDEO MONITOR

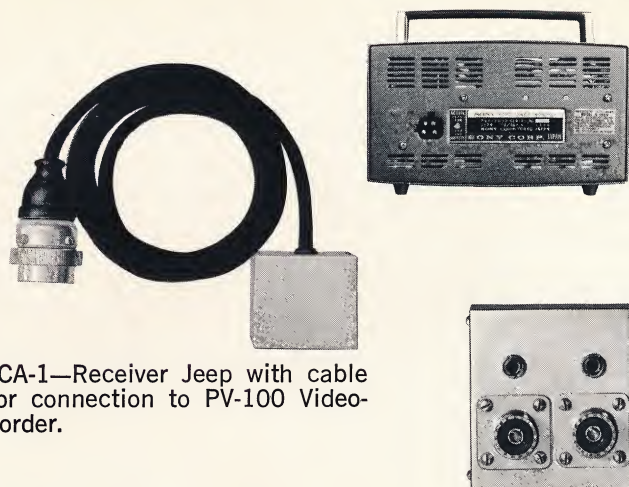
SONY 5" video monitor is built to the same design and specifications as the famous SONY Micro-TV plus the additional feature of a special video amplifier to permit use with closed circuit television systems: fully transistorized, and operates on its own power pack, 12V auto/boat battery and AC, with a bright, crystal clear picture that rivals anything on the market. ■ 25 transistors on three plug-in circuit boards for easy servicing ■ only 8 lbs. for easy portability ■ rack mount plate available for single and dual units ■ complete with "jeep" permanently mounted ■ includes audio amplifier speaker and earphone jacks.

PVJ-3030 VIDEO



PV-3030—has 2 UHF connectors, 2 Audio connectors and has a 72 ohm video termination switch permanently installed on back.

PVJ-303R VIDEO and RF



JCA-1—Receiver Jeep with cable for connection to PV-100 Videorecorder.

JCO-1—Receiver Jeep with 2 UHF connectors.



RM2-303 — Rack mount for two Micro-TV's.

SPECIFICATIONS: PVJ-303R

Dimensions:	Width 7 5/8" Height 4 1/4" Depth 7 1/4" with jeep add 3/4"
Weight:	8 lbs.
Power:	9.6 watts 12V DC 13 watts 110V AC
Antenna:	Rod Antenna 75 ohms, built in Provision for external antenna 75 ohms unbalanced or 300 ohms balanced.
Tuner:	Turret type VHF Provision for optional all channel UHF.
Sensitivity:	10 uV to 10V PP S/N at max. sensitivity 15 DB or better. Sensitivity @ S/N = 30 dB 160 uV or better.
Picture Quality:	I.F. 3.0 MC Video Amp. 3.0 MC Resolution Horizontal 240 lines Resolution Vertical 400 lines
I.F.	AMP. 4 stage Detection-Diode Video carrier 26.75 MC Audio carrier 22.75 MC
High Voltage:	Output 8 KV/70VA Maximum Brightness 500 LX
Feedback circuits:	Pulse AGC Diode AFC, Balanced Automatic Horizontal Frequency Control Automatic Synchro-noise suppression
Front Mounted Controls:	Horizontal hold, Vertical hold, Brightness, Contrast, Volume on-off.
Side Mounted Controls:	(Screw Driver Adj.) Focus, Vert. Height, Vert. Linearity, Horizontal Frequency

Audio:	4.5 MC Inter carrier FM Detector—germanium diode output 150 MW spkr. 3" Diameter Dynamic 70 Ohms Hi Impedance earplug—2 jacks.
Recorder Connector: JCA-1	Size: 2 1/2" x 2" x 1" Video Inputs: 0.5 to 1.5v pp 75 ohms Audio Inputs: + 4DB 600 ohms Video Output: 7V pp Composite Audio Output: + 4 DB 10K ohms PVJ-303RJ Supplied with Jeep and cable for Videorecorder
Video Jeep: JCO-1	PVJ-303RU Jeep with 2 VHF Connectors and 2 Audio Connectors Input Only Video: 1.4 Vpp Composite no termination inside Audio: 10 K ohms unbalanced 0 dbs.

SPECIFICATIONS: PVJ-3030

Deflection:	70°
Front Mounted Controls:	Horizontal hold, Vertical hold, Brightness, Contrast, Volume on-off.
Side Mounted Controls:	(Screw Driver Adj.) Focus, Vert. Height, Vert. Linearity, Horizontal Frequency
Dimensions:	Width 7 5/8" Height 4 1/4" Depth 8"
Weight:	8 lbs.
Power:	9.6 watts 12V DC 13 watts 110V AC
Video:	Input 1V to 2VPP Composite 75 Ohms video amplifier 4.0 MC Resolution—Horizontal 320 lines Vertical 400 lines
High Voltage:	8.0KV 70/VA Max.
Brightness:	500 LX
Audio:	Speaker 3" dia. dynamic 70 Ohms hi impedance Earphone Jacks—2 Input + 4 DB 600 Ohms

SONY CORPORATION OF AMERICA • 580 Fifth Avenue, New York 36, N.Y.

Industrial Division

Regional Offices: BOSTON • CHICAGO • DALLAS • LOS ANGELES • MIAMI • SAN FRANCISCO • SEATTLE • WASHINGTON, D.C.



with
**SLOW MOTION
STOP FRAME
and
ROTO COIL***

PORTABLE, TRANSISTORIZED VIDEO-TAPE TELEVISION RECORDER

The Videocorder is a compact, rugged unit easily handled by two persons and transportable to any location where 110v AC power is available. Transistorized, it will permanently record on tape the video and audio signals of any broadcast, closed circuit television program or live event—with original "live" fidelity—for immediate or later playback.

■ Complete interchangeability between Videocorders. ■ Ease of operation. ■ Heavy duty construction. ■ Modular construction. ■ Both video and audio signals are recorded simultaneously or if desired audio may be dubbed later. ■ Composite video signal is recorded by one head. ■ Vertical sync is recorded by separate head. ■ On playback, slow motion analysis is available as the first step of a control push-button. ■ On playback, the second step on the control push-button completely stops the picture for close inspection and analysis for up to five minutes with no damage to the tape. ■ The Videocorder records and reproduces on all operating modes herein stated on a 60 cycle field frequency, random sync, 2 to 1 industrial sync, and EIA sync. ■ Control panel consists of easily identified push-buttons which control safety interlocked circuits. Record mode design of two record push-buttons, separated by at least three other mode buttons, insures against possibility of accidental erasure. ■ Exclusive new "Rotocoil" system ends a primary cause of electrical noise in ordinary video-tape recorders. A rotary transformer* eliminates the need for the usual slip ring and brushes in the head assembly resulting in noticeably cleaner pictures. As a supplementary benefit, Rotocoil ends conventional maintenance problems formerly associated with old fashioned slip-ring assemblies. ■ Remote control panel is identical to that on the Videocorder and is available as a standard accessory. ■ The Videocorder is rack-mountable in standard 19 inch racks, with tape transport vertical. While SONY video-tape is recommended for optimum results, other high quality, longitudinally oriented video-tapes may also be used.

SONY WARRANTY FOR MATERIAL AND WORKMANSHIP COVERS:

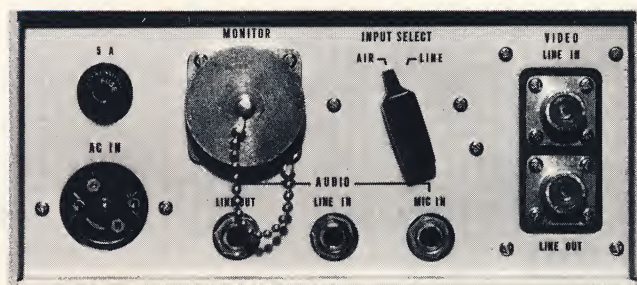
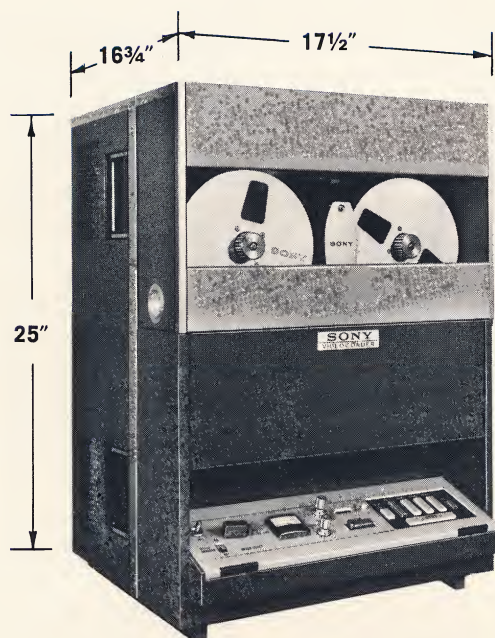
Videocorder parts for a period of one (1) year, except:

(1) Video and sync record heads, 500 hours or one year whichever shall occur first.

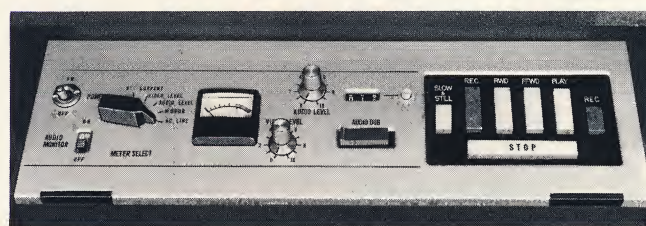
†T.M.

*patent pending.

MODEL PV-100 VIDEOCODER



Videocorder input and output jacks are easily accessible on back of unit.



Videocorder pushbutton panel makes it easy for even a beginner to operate.

SPECIFICATIONS

MECHANICAL

Dimensions: 17½" x 25" x 16¾" (WHD)
Weight: 145 pounds
Completely modular construction
Completely enclosed transport mechanism

PERFORMANCE

Recording medium: 2" Wide tape, self-lubricating, Sony type V-21L

TAPE SPEED

Record: approximately 5¼ IPS
Playback—Normal Mode: 5¼ ips
Playback—Slow Motion: 1 ips approx.
Playback—Stopped Motion: Zero ips

Recording time: 63 minutes on 7 inch reel, 1800 feet tape

Rewind time: approximately 4 minutes

Slow motion: 1/60 normal rate

Still picture: Freeze Frame for up to 5 min.

Lock-in time: 4 seconds (nominal) starting time, 2 seconds still to normal (maximum)

Index counter: positive position indicator

Photo cell: provides automatic stop at both the beginning and end of the reel without unthreading the tape.

Tape Life: average of 1000 passes of tape, normal operation.

Video Head Life: 1000 hours with normal routine maintenance. 500 hour warranty as indicated by elapsed time meter.

Signal to Noise Ratio:

Video: more than 43 db
Audio: more than 40 db

Resolution: Horizontal 330 lines.

Servo Systems: Head motor servoed

Audio Response:

± 1 db 100 cycles to 7000 cycles
± 5 db 50 cycles to 100 cycles
± 5 db 7000 cycles to 10,000 cycles

Wow and Flutter: 0.4% r.m.s.

Ambient Temperature: 0 degrees C to 40 degrees C

ELECTRICAL

Input power: 117 volts ± 5%

Power consumption: 3.5 AMPS.

INPUT SIGNALS

Video: Composite with 60 cps field frequency, random, 2 to 1 industrial or EIA sync at a level of 0.5 to 50 volts peak to peak. (All scan line systems.)

Termination: 75 ohms unbalanced.

Audio: Microphone and 600 ohm line, balanced.
Single or dual* audio, as required.

OUTPUT SIGNALS

Video: 0 - 1.4 V pp, 75 ohms, unbalanced.

Audio: Dual 600 ohms, balanced. +4 dbm

*optional extra

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